

<120> ANTISENSE MODULATION OF MACROPHAGE INFLAMMATORY PROTEIN 3-ALPHA
EXPRESSION

<160> 32

<220>
<223> Antisense Oligonucleotide

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<210> 2
<211> 20
<212> DNA
<213> Artificial Sequence
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<400> 2
atgcattctg cccccaagga                20
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```
<210> 3
<211> 799
<212> DNA
<213> Homo sapiens
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<220>  
<221> CDS  
<222> (59) ... (349)
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<400> 3
cactcccaaa gaactgggta ctcaacactg agcagatctg ttctttgagc taaaaaac 58

atg	tgc	tgt	acc	aag	agt	ttg	ctc	ctg	gct	gct	ttg	atg	tca	gtg	ctg	106
Met	Cys	Cys	Thr	Lys	Ser	Leu	Leu	Leu	Ala	Ala	Leu	Met	Ser	Val	Leu	
1				5					10					15		

cta ctc cac ctc tgc ggc gaa tca gaa gca gca agc aac ttt gac tgc 154
Leu Leu His Leu Cys Gly Glu Ser Glu Ala Ala Ser Asn Phe Asp Cys
20 25 30

tgt ctt gga tac aca gac cgt att ctt cat cct aaa ttt att gtg ggc 202
Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe Ile Val Gly
35 40 45

ttc aca cgg cag ctg gcc aat gaa ggc tgt gac atc aat gct atc atc 250
Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile Asn Ala Ile Ile
50 55 60

ttt cac aca aag aaa aag ttg tct gtg tgc gca aat cca aaa cag act 298
Phe His Thr Lys Lys Lys Leu Ser Val Cys Ala Asn Pro Lys Gln Thr
65 70 75 80

tgg gtg aaa tat att gtg cgt ctc ctc agt aaa aaa gtc aag aac atg 346
Trp Val Lys Tyr Ile Val Arg Leu Leu Ser Lys Lys Val Lys Asn Met
85 90 95

taa aaactgtggc ttttctggaa tggaattgga catagcccaa gaacagaaag 399

aaccttgctg gggttggagg tttcacttgc acatcatgga gggtttagtg cttatctaata 459
ttgtgcctca ctggacttgt ccaattaatg aagttgattc atattgcatc atagtttgct 519
ttgtttaagc atcacattaa agttaaaactg tattttatgt tatttatagc ttaggtttt 579
ctgtgttttag ctattttaata ctaattttcc ataagctatt ttggtttagt gcaaagtata 639
aaattatatt tgggggggaa taagattata tggactttct tgcaagcaac aagctatttt 699
ttaaaaaaac tatttaacat tcttttgttt atattgtttt gtctcctaaa ttgttgtaat 759
tgcattataa aataagaaaa acattaataa gacaaatatt 799

<210> 4
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<220>
<223> PCR Primer

<400> 4
aaaccatgtg ctgtaccaag agttt 25

<210> 5
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 5
cgccgcagag gtggagta 18

<210> 6
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Probe

<400> 6
gtctctggct gctttgatgt cagtgtctg 28

<210> 7
<211> 19
<212> DNA
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<223> PCR Primer	
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<210> 8	
<211> 20	
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gaagatggtg atgggatttc	20
<210> 9	
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caagcttccc gttctcagcc	20
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<400> 18
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<210> 19
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<220>
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<400> 19
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<210> 20
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<220>
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<400> 20
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<210> 21
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<220>
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<400> 21
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<210> 22
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 <212> DNA
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<220>
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<400> 22
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<210> 23
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40944004

cacagaaaac ctacagctat 20

<210> 29
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<220>
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<400> 29
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<210> 30
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<220>
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<400> 30
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<210> 31
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 <212> DNA
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<220>
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<400> 31
 gcaattacaa caatttagga 20

<210> 32
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 <212> DNA
 <213> Artificial Sequence

<220>
 <221> unsure
 <222> (1-20)
 <223> Antisense Oligonucleotide

<400> 32
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